V Vamshi Raj

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SKILLS

Programming Languages: Python, C++, SQL, HTML5, JavaScript.
Libraries and Frameworks: NumPy, Pandas, Matplotlib, Seaborn, React, Django, REST API, Express JS, CSS.
Databases: MySQL, MongoDB.
Tools: Microsoft Visual Studio, Jupyter Notebook, Git, Github, Linux.
Coursework: Product Development, Object-Oriented Design, Software Development, Computer Science Fundamentals, Information Technology, Data Structures and Algorithms with Python, DBMS, Machine Learning, Artificial Intelligence.

EXPERIENCE

Data Analyst Intern | Cognifyz Technologies **September 2024 – October 2024**

- Conducted data analysis by deriving significant insights using MySQL, Python, and Microsoft Excel.
- Refined data by organizing and eliminating null values.
- Processed data using NumPy and Pandas.
- Formulated SQL queries to retrieve complex data for statistical analysis.
- Leveraged Python libraries such as NumPy and Pandas for data analysis, and Matplotlib and Seaborn for data visualization.

EDUCATION

B. Tech in Electronics and Communication (with AIML) **June 2020 - April 2024**
GITAM University, Hyderabad GPA: 8.75/10

PROJECTS

Recipe Sharing App (MERN Stack) **January 2025 – February 2025**

- Developed a full-stack recipe-sharing web application with features for adding, updating, deleting, and viewing recipes.
- Integrated user authentication using JWT allows secure login and recipe management functionalities access.
- Designed a dynamic search feature, enabling users to search for recipes by title and ingredients.
- Built a responsive and intuitive UI with React and Bootstrap, enhancing device user experience.
- Used Express.js and MongoDB in to manage and serve recipe data efficiently with optimized server-side performance.
- Implemented error-handling mechanisms for invalid inputs and API failures, ensuring smooth user interaction.

Weather App (Python, Django, HTML, CSS, BootStrap) **November 2024 – December 2024**

- Developed a web application providing real-time weather forecasts using the OpenWeather API.
- Implemented a city-based search feature to fetch and display live weather details, including temperature, humidity, wind speed, and conditions.
- Collaborated a responsive UI using Bootstrap and CSS for an intuitive user experience.
- Executed comprehensive solutions with Django for precise handling of complex API requests and effective content delivery mechanisms which reduced server load time under heavy traffic conditions by an impressive three seconds per request.
- Integrated error-handling mechanisms to manage invalid inputs for improved user interaction.

Planit (HTML, CSS, JavaScript) **August 2024**

- Designed the Planit App, a task management tool enabling users to add, update, and delete tasks with an intuitive interface.

Enhancing Security in WSNs against DoS attacks using Machine Learning **Nov 2023 – Apr 2024**

- Evaluated Decision Trees (DT), Random Forest (RF), and XGBoost for DoS attack detection.
- Applied data balancing techniques, improving detection accuracy by 7%, 4%, and 5% across models.
- Assessed model performance on a secondary dataset, analyzing accuracy variations.
- Developed an interactive Flask-based front-end using HTML & CSS for seamless ML integration.

CERTIFICATIONS

Data Analysis with Python – IBM
AWS Cloud – AWS Coursera
Python for data science, AI and Development - IBM Coursera